

Title (en)

A DIRECT CURRENT UTILIZATION POSITION AND ORIENTATION MEASURING DEVICE

Publication

**EP 0285658 A4 19910731 (EN)**

Application

**EP 87908028 A 19870910**

Priority

US 91738986 A 19861009

Abstract (en)

[origin: WO8802844A1] A device for measuring the position and orientation of receiving antennae (3) with respect to transmitting antennae (2) utilizing electromagnetic signals. The transmitting and receiving components of the instant device consist of two or more separate transmitting antennae of known position and orientation with respect to each other. Each transmitting antenna (2) is driven one at a time by a pulsed, direct current signal. The receiving antennae (3) measure the transmitted direct current magnetic field and the Earth's magnetic field as well. A computer device (5) is used to control the transmitting and receiving elements and to convert the receiving signals into position and orientation outputs.

IPC 1-7

**G01B 7/14**

IPC 8 full level

**F41G 3/22** (2006.01); **G01B 7/00** (2006.01); **G01B 7/004** (2006.01); **G01B 7/14** (2006.01); **G01B 7/30** (2006.01)

CPC (source: EP KR US)

**F41G 3/225** (2013.01 - EP US); **G01B 7/004** (2013.01 - EP US); **G01B 7/14** (2013.01 - EP KR US)

Citation (search report)

- [XP] US 4622644 A 19861111 - HANSEN PER K [US]
- [A] EP 0058412 A2 19820825 - HONEYWELL INC [US]
- See references of WO 8802844A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**WO 8802844 A1 19880421**; CA 1318010 C 19930518; DE 3786783 D1 19930902; DE 3786783 T2 19931118; EP 0285658 A1 19881012; EP 0285658 A4 19910731; EP 0285658 B1 19930728; IL 83941 A0 19880229; IL 83941 A 19920115; JP 2541648 B2 19961009; JP H01500931 A 19890330; KR 880701862 A 19881105; US 4849692 A 19890718

DOCDB simple family (application)

**US 8702326 W 19870910**; CA 568991 A 19880607; DE 3786783 T 19870910; EP 87908028 A 19870910; IL 8394187 A 19870918; JP 50027188 A 19870910; KR 880700644 A 19880608; US 91738986 A 19861009